SEQUENCE LISTING

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<110> Robbins, Paul D.
      Mai, Jeffrey C.
<120> A COMPACT SYNTHETIC EXPRESSION VECTOR COMPRISING DOUBLE-STRANDED DNA
      MOLECULES AND METHODS OF USE THEREOF
<130> AP35518 (072396.0263)
<140> To Be Assigned
<141> 2004-03-24
<150> 60/456,989
<151> 2003-03-24
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ggatcgaaac c
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Cys Gly Ser Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser
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 Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Gly Ser
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                                                                     15
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 gtgcttgctt tggtagcaca
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ccaccagcuu cuacaauagc uu
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gcuguuguag aggcuggugg aa
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ccaccagcuu cuacaauagc uu
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ttgggaatct tataagttct gtatgagacc acagatcccc
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<223> n = A, T, C or G
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<222> (93)...(111)
<223> n = A, T, C \text{ or } G
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caggactagt cttttaggtc aaaaagaaga agctttgtaa ccgttggaaa acgtagtgta 60
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aaaccgggcg ttttt
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tqtaqtqqtt acacnnnnn nnnnnnnnn nnnatqnnn nnnnnnnnn nnnnttcqq 120
ttcgaaaccg ggcgttttta aagagagtcg cttttttttc tatcgctaat tctgtttttg 180
agtattttca
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<222> (101) ... (119)
<223> n = A, T, C \text{ or } G
<223> synthetic oligonucleotide
<400> 25
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tgtagtggtt nnnnnnnnn nnnnnnnng ttcgactctg nnnnnnnnn nnnnnnnnt 120
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ttttctatcg ctaat
<210> 26
<211> 155
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<221> misc_feature
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<223> n = A,T,C or G
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<223> n = A, T, C or G
<223> synthetic oligonucleotide
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tgtagtggtt nnnnnnnnn nnnnnnnnng ttcgactctg nnnnnnnnn nnnnnnnnnt 120
ttttctatcg ctaattctgt ttttgagtat tttca
                                                                     155
<210> 27
<211> 135
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<221> misc_feature
<222> (66)...(84)
<223> n = A, T, C \text{ or } G
<221> misc feature
<222> (95)...(113)
<223> n = A, T, C or G
<223> synthetic oligonucleotide
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gtggtnnnnn nnnnnnnnn nnnncttcct gtcannnnn nnnnnnnnn nnntttttgg 120
ttcgaaaccg ggcgg
                                                                     135
<210> 28
<211> 194
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<221> misc_feature
<222> (70)...(88)
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<222> (99)...(117)
<223> n = A, T, C or G
<223> synthetic oligonucleotide
<400> 28
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ttggttcgaa accgggcgga aacaaagaga gtcgcttttt tttctatcgc taattctgtt 180
tttgagtatt ttca
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<222> (79)...(97)
<223> n = A, T, C or G
<221> misc feature
<222> (112) ... (130)
<223> n = A, T, C or G
<223> synthetic oligonucleotide
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ttggtagcac atgtacttnn nnnnnnnnn nnnnnnnaag atagcacagt annnnnnnnn 120
nnnnnnnn ttttt
                                                                     135
<210> 30
<211> 150
<212> DNA
<213> Artificial Sequence
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<221> misc_feature
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aacaccgtgc ttgctttggt agcacatgta cttnnnnnnn nnnnnnnnn nnaagatagc 120
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acagtannnn nnnnnnnnn nnnnnttttt
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<222> (115)...(133)
<223> n = A, T, C or G
<223> synthetic oligonucleotide
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gtgggggcgc gttcgtcctc actctnnnnn nnnnnnnnn nnnncttcct gtcannnnnn 120
nnnnnnnnn nnntt
<210> 32
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<221> misc feature
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<222> (135)...(153)
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<223> synthetic oligonucleotide
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cttcggcatc aaggaaggtg attggtttat aggtgtaggc cacgtgaccg ggtgttcctg 60
aaggggggct ataaaagggg gtgggggcgc gttcgtcctc actctnnnnn nnnnnnnnn 120
nnnncttcct gtcannnnn nnnnnnnnn nnnttttt
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<221> misc_feature
<222> (112)...(130)
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<223> synthetic oligonucleotide
<400> 33
ctcatgcttg gctggcagcc atccagtttt agccagctcc tccctacctt ccctttttt 60
tatatataca ggaggccgag gcnnnnnnn nnnnnnnnn ncttcctgtc annnnnnnn 120
nnnnnnnnn ttttt
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<210> 34
<211> 153
<212> DNA
<213> Artificial Sequence
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<221> misc feature
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<223> n = A,T,C or G
<221> misc_feature
<222> (130)...(148)
<223> n = A,T,C or G
<223> synthetic oligonucleotide
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cctaccttcc cttttttta tatatacagg aggccgaggc nnnnnnnnn nnnnnnnnc 120
ttcctgtcan nnnnnnnnn nnnnnnnntt ttt
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<212> DNA
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tagtggttga atggcgtcaa ggtggacgtt cgactctggt tcaccttgat gccgttcttt 120
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tagtgtagtg g
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<210> 40
<211> 82
<212> DNA
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<223> synthetic oligonucleotide
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atgccgttct ttttctatcg ct
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<223> synthetic oligonucleotide
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cacactgatt gcaggctgat cctgaggttc aagatagcac agtagaactt cagggtcagc 120
ttgcttttt
                                                                    129
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<400> 42
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<210> 43
<211> 13
<212> DNA
<213> Artificial Sequence
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<400> 43
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aagatagcac agt
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<212> DNA
<213> Artificial Sequence
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ctgatt
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<210> 46
<211> 85
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gaacttcagg gtcagcttgc ttttt
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<223> synthetic oligonucleotide
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nnnncttcct gtcannnnn nnnnnnnnn nnntttttga attcc
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ggaggggtag cggtcgttgt ccactagggg gtccactcgc tccagggtgt gaagacacat 180
gtcgccctct tcggcatcaa ggaaggtgat tggtttatag gtgtaggcca cgtgaccggg 240
tgttcctgaa ggggggctat aaaagggggt gggggcgct tcgtcctcac tctcttcnnn 300
nnnnnnnnn nnnnncttc ctgtcannnn nnnnnnnnn nnnnnttttt
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121